

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. – 35. (Canceled)

36. (Previously presented) An isolated nucleic acid consisting of SEQ ID NO:21 or SEQ ID NO:26.

37. (Previously presented) An isolated nucleic acid comprising SEQ ID NO:21 or SEQ ID NO:26.

38. (Previously presented) An isolated nucleic acid encoding a polypeptide comprising a sequence as set forth in SEQ ID NO:20 or SEQ ID NO:25.

39. – 41. (Canceled)

42. (Previously presented) A vector comprising the nucleic acid of claim 36.

43. (Previously presented) A vector comprising the nucleic acid of claim 37.

44. (Previously presented) A vector comprising the nucleic acid of claim 38.

45. (Canceled)

46. (Previously presented) A cultured host cell comprising the nucleic acid of claim 36.

47. (Previously presented) A cultured host cell comprising the nucleic acid of claim 37.

48. (Previously presented) A cultured host cell comprising the nucleic acid of claim 38.

49. (Canceled)

50. (Previously presented) A method of producing a polypeptide, the method comprising culturing the cultured host cell of claim 46 in a culture, expressing the polypeptide encoded by the nucleic acid in the cultured host cell, and isolating the polypeptide from the culture.

51. – 56 (Canceled )

57. (Currently amended) An isolated nucleic acid comprising a sequence that encodes a polypeptide the amino acid sequence of which is at least ~~[[60%]]~~ 99% identical to SEQ ID NO:20 or SEQ ID NO:25, wherein the polypeptide has an activity of a G protein-coupled receptor protein.

58. (Canceled)

59. (Canceled)

60. (New) An isolated nucleic acid encoding a polypeptide, the sequence of which comprises the amino acid sequence of SEQ ID NO:20 or SEQ ID NO:25 with up to 3 conservative amino acid substitutions.

61. (New) The isolated nucleic acid of claim 57, wherein the polypeptide has an activity of binding to histamine.

62. (New) The isolated nucleic acid of claim 60, wherein the polypeptide has an activity of binding to histamine.

63. (New) A vector comprising the nucleic acid of claim 57.

64. (New) A vector comprising the nucleic acid of claim 60.

65. (New) A cultured host cell comprising the nucleic acid of claim 57.

66. (New) A cultured host cell comprising the nucleic acid of claim 60.

67. (New) A method of producing a polypeptide, the method comprising culturing the cultured host cell of claim 47 in a culture, expressing the polypeptide encoded by the nucleic acid in the cultured host cell, and isolating the polypeptide from the culture.

68. (New) A method of producing a polypeptide, the method comprising culturing the cultured host cell of claim 48 in a culture, expressing the polypeptide encoded by the nucleic acid in the cultured host cell, and isolating the polypeptide from the culture.

69. (New) A method of producing a polypeptide, the method comprising culturing the cultured host cell claim 65 in a culture, expressing the polypeptide encoded by the nucleic acid in the cultured host cell, and isolating the polypeptide from the culture.

70. (New) A method of producing a polypeptide, the method comprising culturing the cultured host cell claim 66 in a culture, expressing the polypeptide encoded by the nucleic acid in the cultured host cell, and isolating the polypeptide from the culture.